

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/625,710	07/22/2003	Alexander Gantman	030464	8120		
23696	7590 09/20/2006		EXAM	EXAMINER		
QUALCOM 5775 MORE	IM INCORPORATED	PARTHASARATHY, PRAMILA				
SAN DIEGO		ART UNIT	PAPER NUMBER			
	•		2136	2136		
•		DATE MAILED: 09/20/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

:							
· · · · · · · · · · · · · · · · · · ·		Application No.		Applicant(s)			
		10/625,710		GANTMAN ET AL.			
	Office Action Summary	Examiner		Art Unit			
		<b>I</b>	rthasarathy	2136			
Period fo	The MAILING DATE of this communication a or Reply	appears on the	cover sheet with the d	orrespondence ac	Idress		
WHI( - Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPORTED FOR IS LONGER, FROM THE MAILING INSIDE IN THE MAILING INSIDE IN THE MAILING INSIDE IN THE MAILING INSIDE IN THE MAILING IN THE MAILIN	DATE OF TH 1.136(a). In no even dod will apply and will tute, cause the appli	IS COMMUNICATION  nt, however, may a reply be tin  expire SIX (6) MONTHS from cation to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).			
Status							
2a)	Responsive to communication(s) filed on <u>06</u> This action is <b>FINAL</b> . 2b) The Since this application is in condition for allow closed in accordance with the practice under the practice	his action is no wance except f	for formal matters, pro		e merits is		
Disposit	ion of Claims						
5)	Claim(s) 1-61 is/are pending in the application 4a) Of the above claim(s) is/are with declaim(s) is/are allowed.  Claim(s) 1-61 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and signification is objected to by the Examination The drawing(s) filed on is/are: a) are applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the	d/or election re iner. ccepted or b)[ he drawing(s) be ection is require	quirement.  objected to by the left held in abeyance. See dif the drawing(s) is objected to by the left held in abeyance.	e 37 CFR 1.85(a). jected to. See 37 Cl	• •		
Priority ι	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2)	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

#### **DETAILED ACTION**

This action is in response to the communication filed on 07/06/2006. Claims 1,
 11, 19, 27, 30, 41, 50 and 59 have been amended. Claims 1 – 61 are currently pending.

## Allowable Subject Matter

2. Claims 5, 6, 15, 23 and 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Prior art of record even in combination does not explicitly disclose generating the access code using the cryptographic key and the challenge.

### Response to Arguments

Applicant's arguments filed 7/6/2006 with respect to double patenting have been fully considered but they are not persuasive. Applicant is advised to file a terminal disclaimer to overcome the double patenting rejection and Double patenting rejection for Claims 1 – 61 has been maintained.

Art Unit: 2136

Applicant's arguments with respect to amended Claims 1 – 61 have been considered but are most in view of the new ground(s) of rejection.

#### **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1 – 61 provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 – 45 of copending Application No. 10/873,656. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant case, all elements of claims

1 – 61 correspond to the claims of 1 – 45 of the copending application claims, except in the instant claims the cryptographic key is a private key corresponding to a public key and the cryptographic key is a symmetric key, is referred in the copending application claims as a cryptographic key. It would have been obvious to one having ordinary skill in the art to recognize that a cryptographic key can be a private-public key pair or a symmetric key.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

4. Claims 1 – 61 provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 – 58 of copending

Application No. 10/077,365. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant case, all elements of claims 1 – 61 correspond to the claims of 1 – 45 of the copending application claims, except in the instant claims a storage medium configured to store a cryptographic key; a processor coupled to the storage medium and configured to generate an access code using the cryptographic key; a converter coupled to the processor and configured to convert the access code into sound waves encoded with the access code; and an audio output unit coupled to the converter and configured to output the sound waves encoded with the access code for authentication; a clock coupled to the processor and configured to generate a time element; and wherein the processor is configured to generate the access code using the cryptographic key and the time element, is referred

Art Unit: 2136

in the copending application claims as <u>a processor</u>; a clock coupled to the processor <u>configurable to generate a time element; a memory element to the processor</u> <u>configurable to store a private key and public key information; at least one actuator</u> <u>coupled to the processor; a signature generator coupled to the processor operable to generate a digital signature, the digital signature being a function of the private key and the time element; and an emitter coupled to the signal generator operable to emit the <u>secure identifier, the secure identifier comprising the digital signature, time element, and public key information</u>. It would have been obvious to one having ordinary skill in the art to recognize that <u>a private-public key pair key is a cryptographic key</u>.</u>

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

5. Claims 1 – 61 provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 – 58 of copending

Application No. 10/785,313. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant case, all elements of claims 1 – 61 correspond to the claims of 1 – 42 of the copending application claims, except in the instant claims a storage medium configured to store a cryptographic key; a processor coupled to the storage medium and configured to generate an access code using the cryptographic key; a converter coupled to the processor and configured to convert the access code into sound waves encoded with the access code; and an

Art Unit: 2136

audio output unit coupled to the converter and configured to output the sound waves encoded with the access code for authentication; a clock coupled to the processor and configured to generate a time element; and wherein the processor is configured to generate the access code using the cryptographic key and the time element, is referred in the copending application claims as a storage medium configured to store a <u>cryptographic key and a look up table (LUT)</u>; a first processor coupled to the storage medium, configured to generate an access code using the cryptographic key; a converter coupled to the processor, configured to convert the access code into multiple tones encoded with the access code; and an audio output unit configured to output the multiple tones encoded with the access code for authentication, wherein the converter comprises: a binary phase shift keying (BPSK) module configured to generate multiple parallel BPSK symbols; and a second processor coupled to the BPSK module and the storage medium, configured to convert the BPSK symbols into the multiple tones using the LUT. It would have been obvious to one having ordinary skill in the art to recognize that a private-public key pair key is a cryptographic key.

Page 6

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

6. Claims 1 – 61 provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 – 21 of copending Application No. 10/139873. Although the conflicting claims are not identical, they are

Art Unit: 2136

not patentably distinct from each other because the instant case, all elements of claims 1-61 correspond to the claims of 1-21 of the copending application claims, except in the instant claims a storage medium configured to store a cryptographic key; a processor coupled to the storage medium and configured to generate an access code using the cryptographic key; a converter coupled to the processor and configured to convert the access code into sound waves encoded with the access code; and an audio output unit coupled to the converter and configured to output the sound waves encoded with the access code for authentication; a clock coupled to the processor and configured to generate a time element; and wherein the processor is configured to generate the access code using the cryptographic key and the time element, is referred in the copending application claims as providing at least a PIN and a confidential public key to an authorizing computer; establishing a communication link between the authorizing computer and at least one receiver remote from the computer, the communication link not being constrained to be secure; receiving, at the receiver, at least one acoustic signal representative of at least one private-key generated signal, the receiver transforming the acoustic signal to a signature signal; receiving, at the receiver, the PIN, the PIN being received separately from the acoustic signal; encrypting the signature signal with the PIN to render an encrypted signature signal; and sending the encrypted signature signal to the authorizing computer for verification of signature using the PIN and confidential public key. It would have been obvious to one having ordinary skill in the art to recognize that a private-public key pair key is a cryptographic key and acoustic signal is equivalent to audio signal.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-4, 7-14, 16-22, 24-28 and 30-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Owens et al. (U.S. Patent Number 5,481,611) in view of Bolinth et al. (U.S. Publication Number 2005/0047514).
- 8. Regarding Claim 1, Owens teaches a storage medium configured to store a cryptographic key (Summary and Column 9 lines 1-9);

a processor coupled to the storage medium and configured to generate an access code using the cryptographic key (Summary and Column 9 lines 1-40);

a converter coupled to the processor and configured to convert the access code into sound waves encoded with the access code (Summary and Column 9 lines 1-40); and

an audio output unit coupled to the converter and configured to output the sound waves encoded with the access code for authentication (Summary and Column 9 lines 1-40). Owens does not explicitly teach "the converter encoding the access code into sound waves using multicarrier modulation" (An audio encoder 44 converts the

Art Unit: 2136

encrypted digital time code and the audio encoding and are acoustically coupled to facilitate communication with the host, see Owen Column 7 lines 31 – 56). However, Bolinth teaches a multi-carrier modulator or demodulator of the transmit and receive device, wherein the signal (access code) is converted into sound waves using multi-carrier modulation (see Bolinth paragraphs [0018 – 0030]). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention was made to use the teachings of Bolinth in conjunction with Owens for encoding the access code into sound waves using multi-carrier modulation to provide improved ways to transfer data (access code) and provide efficient ways to recover access code as suggested by Bolinth (see Bolinth paragraph [0014]).

**9.** Regarding Claim 11, Owens teaches generating an access code using the cryptographic key (Summary and Column 9 lines 1 - 9);

converting the access code into sound waves encoded with the access code (Summary and Column 9 lines 1-40); and

outputting the sound waves encoded with the access code for authentication (Summary and Column 9 lines 1 – 40). Owens does not explicitly teach "the converter encoding the access code into sound waves using multicarrier modulation" (An audio encoder 44 converts the encrypted digital time code and the audio encoding and are acoustically coupled to facilitate communication with the host, see Owen Column 7 lines 31 – 56). However, Bolinth teaches a multi-carrier modulator or demodulator of the transmit and receive device, wherein the signal (access code) is converted into sound

waves using multi-carrier modulation (see Bolinth paragraphs [0018 - 0030]).

Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention was made to use the teachings of Bolinth in conjunction with Owens for encoding the access code into sound waves using multi-carrier modulation to provide improved ways to transfer data (access code) and provide efficient ways to recover access code as suggested by Bolinth (see Bolinth paragraph [0014]).

10. Regarding Claim 19, Owens teaches means for storing a cryptographic key(Summary and Column 9 lines 1 – 9);

means for generating an access code using the cryptographic key (Summary and Column 9 lines 1-40);

means for converting the access code into sound waves (Summary and Column 9 lines 1-40); and

means for outputting the sound waves encoded with the access code for authentication (Summary and Column 9 lines 1 – 40). Owens does not explicitly teach "the converter encoding the access code into sound waves using multicarrier modulation" (An audio encoder 44 converts the encrypted digital time code and the audio encoding and are acoustically coupled to facilitate communication with the host, see Owen Column 7 lines 31 – 56). However, Bolinth teaches a multi-carrier modulator or demodulator of the transmit and receive device, wherein the signal (access code) is converted into sound waves using multi-carrier modulation (see Bolinth paragraphs [0018 – 0030]). Therefore, it would have been obvious to one of the ordinary skill in the

Art Unit: 2136

art at the time of the invention was made to use the teachings of Bolinth in conjunction with Owens for encoding the access code into sound waves using multi-carrier modulation to provide improved ways to transfer data (access code) and provide efficient ways to recover access code as suggested by Bolinth (see Bolinth paragraph [0014]).

11. Regarding Claim 27, Owens teaches code segment configured to generate an access code using a cryptographic key (Summary and Column 9 lines 1 - 40);

code segment configured to convert the access code into sound waves encoded with the access code (Summary and Column 9 lines 1 – 40); and

code segment configured to output the sound waves encoded with the access code for authentication (Summary and Column 9 lines 1 – 40). Owens does not explicitly teach "the converter encoding the access code into sound waves using multicarrier modulation" (An audio encoder 44 converts the encrypted digital time code and the audio encoding and are acoustically coupled to facilitate communication with the host, see Owen Column 7 lines 31 – 56). However, Bolinth teaches a multi-carrier modulator or demodulator of the transmit and receive device, wherein the signal (access code) is converted into sound waves using multi-carrier modulation (see Bolinth paragraphs [0018 – 0030]). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention was made to use the teachings of Bolinth in conjunction with Owens for encoding the access code into sound waves using multi-carrier modulation to provide improved ways to transfer data (access code) and

Art Unit: 2136

provide efficient ways to recover access code as suggested by Bolinth (see Bolinth paragraph [0014]).

**12.** Regarding Claim 30, Owens teaches a storage medium configured to store a cryptographic key (Summary and Column 9 lines 1 - 9);

an audio input unit configured to receive sound waves encoded with an access code (Summary and Column 9 lines 1 – 40);

a converter coupled to the audio input unit and configured to recover the access code from the sound waves (Summary and Column 9 lines 1 - 40); and

a processor coupled to the storage medium and the converter, the processor configured to verify the access code based on the cryptographic key and to grant access if the access code is verified (Summary and Column 9 lines 1 – 40). Owens does not explicitly teach "an audio input unit configured to receive sound waves encoded with an access code using multicarrier modulation;" and "the converter recovering the access code from sound waves using multicarrier demodulation" (An audio encoder 44 converts the encrypted digital time code and the audio encoding and are acoustically coupled to facilitate communication with the host, see Owen Column 7 lines 31 – 56). However, Bolinth teaches a multi-carrier modulator or demodulator of the transmit and receive device, wherein the signal (access code) is converted into sound waves using multi-carrier modulation (see Bolinth paragraphs [0018 – 0030]).

Therefore, it would have been obvious to one of the ordinary skill in the art at the time of

the invention was made to use the teachings of Bolinth in conjunction with Owens for

Art Unit: 2136

encoding the access code into sound waves using multi-carrier modulation to provide improved ways to transfer data (access code) and provide efficient ways to recover access code as suggested by Bolinth (see Bolinth paragraph [0014]).

**13.** Regarding Claim 41, Owens teaches receiving sound waves encoded with an access code (Summary and Column 9 lines 1 – 40);

recovering the access code from the sound waves encoded with an access code (Summary and Column 9 lines 1-40); and

verifying the access code based on the cryptographic key (Summary and Column 9 lines 1 – 40). Owens does not explicitly teach "receiving sound waves encoded with an access code using multicarrier modulation;" and "recovering the access code from the sound waves using multicarrier demodulation" (An audio encoder 44 converts the encrypted digital time code and the audio encoding and are acoustically coupled to facilitate communication with the host, see Owen Column 7 lines 31 – 56). However, Bolinth teaches a multi-carrier modulator or demodulator of the transmit and receive device, wherein the signal (access code) is converted into sound waves using multi-carrier modulation (see Bolinth paragraphs [0018 – 0030]). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention was made to use the teachings of Bolinth in conjunction with Owens for encoding the access code into sound waves using multi-carrier modulation to provide improved ways to transfer data (access code) and provide efficient ways to recover access code as suggested by Bolinth (see Bolinth paragraph [0014]).

Art Unit: 2136

14. Regarding Claim 50, Owens teaches means for storing a cryptographic key(Summary and Column 9 lines 1 – 40);

Page 14

means for receiving sound waves encoded with an access code (Summary and Column 9 lines 1-40);

means for recovering the access code from the sound waves (Summary and Column 9 lines 1-40); and

means for verifying the access code based on the cryptographic key (Summary and Column 9 lines 1 – 40). Owens does not explicitly teach "means for receiving sound waves encoded with an access code using multicarrier modulation" and "means for recovering the access code from the sound waves using multicarrier demodulation;" (An audio encoder 44 converts the encrypted digital time code and the audio encoding and are acoustically coupled to facilitate communication with the host, see Owen Column 7 lines 31 – 56). However, Bolinth teaches a multi-carrier modulator or demodulator of the transmit and receive device, wherein the signal (access code) is converted into sound waves using multi-carrier modulation (see Bolinth paragraphs [0018 – 0030]). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention was made to use the teachings of Bolinth in conjunction with Owens for encoding the access code into sound waves using multi-carrier modulation to provide improved ways to transfer data (access code) and provide efficient ways to recover access code as suggested by Bolinth (see Bolinth paragraph [0014]).

Art Unit: 2136

**15.** Regarding Claim 59, Owens teaches code segment for receiving sound waves encoded with an access code (Summary and Column 9 lines 1 - 40);

Page 15

code segment for recovering the access code from the sound waves encoded with the access code (Summary and Column 9 lines 1-40); and

code segment for verifying the access code based on the cryptographic key (Summary and Column 9 lines 1 – 40). Owens does not explicitly teach "code segment" for receiving sound waves encoded with an access code using multicarrier modulation" and "code segment for recovering the access code from the sound waves encoded with the access code using multicarrier demodulation;" (An audio encoder 44 converts the encrypted digital time code and the audio encoding and are acoustically coupled to facilitate communication with the host, see Owen Column 7 lines 31 – 56). However, Bolinth teaches a multi-carrier modulator or demodulator of the transmit and receive device, wherein the signal (access code) is converted into sound waves using multicarrier modulation (see Bolinth paragraphs [0018 – 0030]). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention was made to use the teachings of Bolinth in conjunction with Owens for encoding the access code into sound waves using multi-carrier modulation to provide improved ways to transfer data (access code) and provide efficient ways to recover access code as suggested by Bolinth (see Bolinth paragraph [0014]).

Art Unit: 2136

**16.** Claims 2, 12, 20, 31, 42 and 51 are rejected applied as above in rejecting Claims 1, 11, 19, 30, 41 and 50. Furthermore, Owens teaches wherein the cryptographic key is a private key corresponding to a public key (Column 3 lines 61 – 67).

Page 16

- 17. Claims 3, 13, 21, 32, 43 and 52 are rejected applied as above in rejecting Claims 1, 11, 19, 30, 41 and 50. Furthermore, Owens teaches wherein the cryptographic key is a symmetric key (Column 3 lines 61 67).
- **18.** Claims 4, 14, 22, 28, 33, 44, 53 and 60 are rejected applied as above in rejecting Claims 1, 11, 19, 27, 30, 41, 50 and 59. Furthermore, Owens teaches a clock coupled to the processor and configured to generate a time element; and wherein the processor is configured to generate the access code using the cryptographic key and the time element (Column 3 lines 31 50 and Column 9 lines 1 40).
- **19.** Claims 34, 45 and 54 are rejected applied as above in rejecting Claims 30, 41 and 50. Furthermore, Owens teaches an audio input unit configured to receive sound waves encoded with a challenge; wherein the converter recovers the challenge; and the processor is configured to generate the access code using the cryptographic key and the challenge (Column 3 lines 31 50 and Column 9 lines 1 55).

Application/Control Number: 10/625,710 Page 17

Art Unit: 2136

**20.** Claims 7, 35 and 38 are rejected applied as above in rejecting Claims 1, 30 and 34. Furthermore, Owens teaches wherein the audio output unit comprises a speaker (Column 9 lines 1 – 29).

- **21.** Claims 8, 16 and 24 are rejected applied as above in rejecting Claims 1, 11 and 19. Furthermore, Owens teaches an actuator coupled to the processor and configured to receive a signal that activates the generation of the access code (Column 3 lines 31 50 and Column 9 lines 31 67).
- 22. Claims 9, 17, 25, 36, 37, 46, 47, 55 and 56 are rejected applied as above in rejecting Claims 1, 11, 19, 31, 34, 41, 45 and 54. Furthermore, Owens teaches a user input unit configured to receive a first password; wherein the storage medium is configured to store a second password; and wherein the processor is configured to generate the access code if the first password corresponds to the second password (Column 9 line 61 Column 10 line 11).
- 23. Claims 10, 18 and 26 are rejected applied as above in rejecting Claims 1, 11 and 19. Furthermore, Owens teaches a user input unit configured to receive a password; wherein the converter is configured to encode the password into sound waves; and wherein the audio output unit is configured to output the sound waves encoded with the password for authentication (Column 9 line 61 Column 10 line 11).

Application/Control Number: 10/625,710 Page 18

Art Unit: 2136

24. Claims 48 and 57 are rejected applied as above in rejecting Claims 41 and 50. Furthermore, Owens teaches wherein the verifier device stores a first password and the method further comprises: receiving sound waves encoded with a second password; and recovering the second password; wherein verifying the access code comprises verifying the access code if the first password corresponds to the second password (Column 9 line 61 – Column 10 line 11).

- 25. Claims 40, 49 and 58 are rejected applied as above in rejecting Claims 30, 41 and 50. Furthermore, Owens teaches wherein the verifier device stores a first password and the method further comprises: receiving a second password; wherein verifying the access code comprises verifying the access code if the first password corresponds to the second password (Column 9 lines 1 Column 10 line 11).
- 26. Claim 61 is rejected applied as above in rejecting Claim 59. Furthermore, Owens teaches code segment for generating challenge; code segment for converting the challenge into audio wave encoded with the challenge; code segment for outputting sound waves encoded with a challenge; wherein the code segment for verifying the access code verifies the access code based on the cryptographic key and the challenge (Column 9 line 61 Column 10 line 11).

Art Unit: 2136

#### Conclusion

Page 19

27. Examiner's Note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

**28.** The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO Form 892.

Applicant is urged to consider the references. However, the references should be evaluated by what they suggest to one versed in the art, rather than by their specific disclosure. If applicants are aware of any better prior art than those are cited, they are required to bring the prior art to the attention of the examiner.

Art Unit: 2136

Page 20

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pramila Parthasarathy whose telephone number is 571-272-3866. The examiner can normally be reached on 8:00a.m. To 5:00p.m.. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-232-3795. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR only. For more information about the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pramila Parthasarathy

September 17, 2006.

NASSER MOAZZAMI PRIMARY EXAMINER

9,18,06